

Glass Passivated Bridge Rectifiers

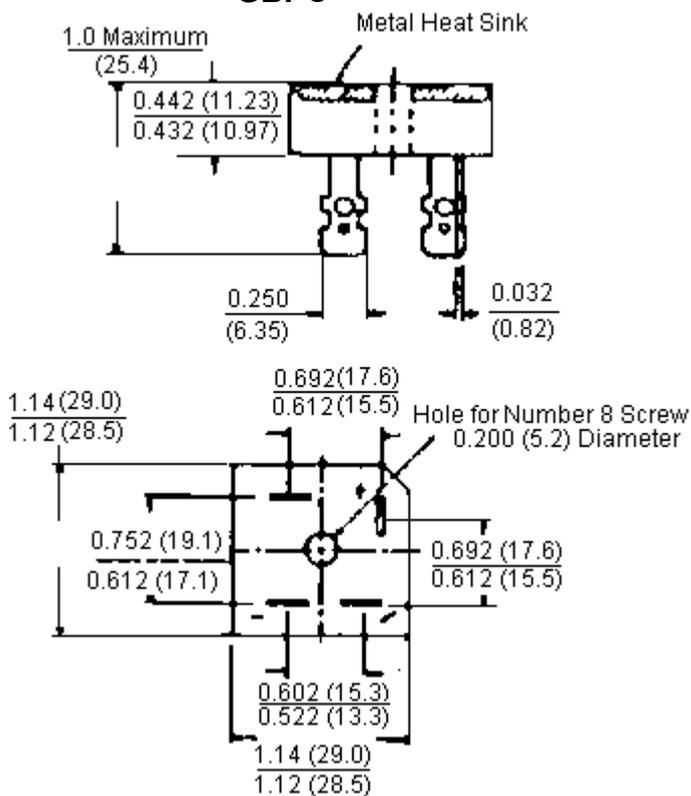
GBPC Series



Features:

- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation.
- Universal 4-way terminals; snap-on, wrap-around, solder or PC board mounting.
- Surge overload rating to 400 amperes.
- Terminals solderable per MIL-STD-202, Method 208.
- Typical IR less than 0.2 μ A.
- High temperature soldering guaranteed: 250°C/10 seconds/0.375 inches.
- Isolated voltage from case to terminal over 2500 volts.

GBPC



Dimensions : Inches (Millimetres)

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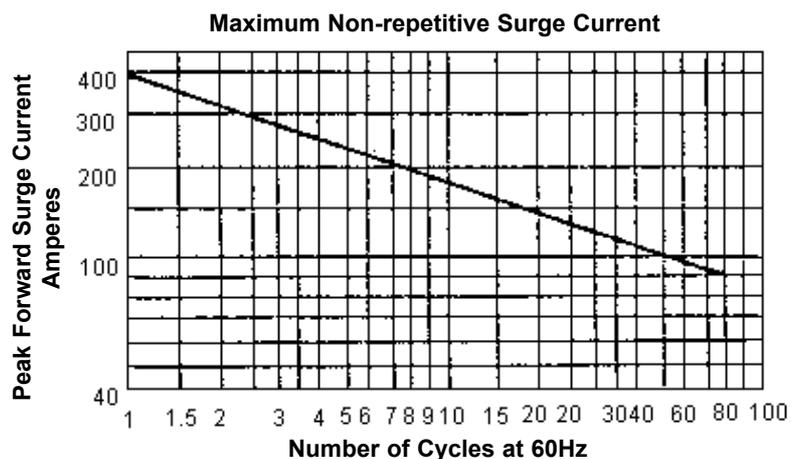
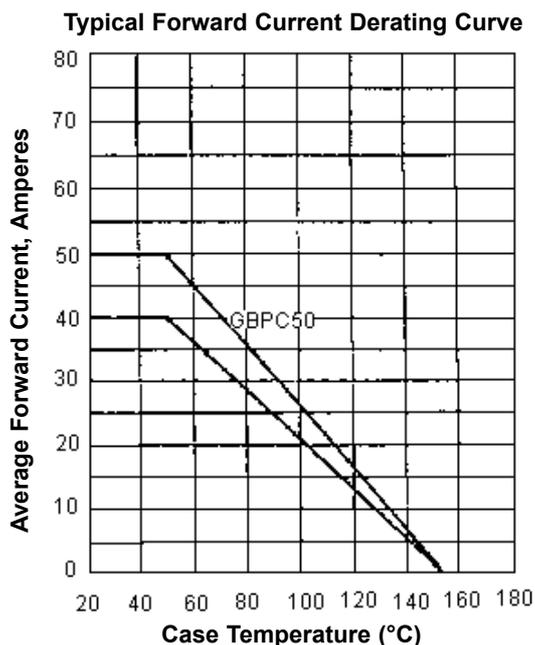
Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	GBPC5002	GBPC5006	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	600	Volts
Maximum RMS Voltage	V_{RMS}	140	420	
Maximum DC Blocking Voltage	V_{DC}	200	600	
Maximum Average Forward Rectified Output Current at $T_C = 55^\circ C$	$I_{(AV)}$	50.0		Amperes
Peak Forward Surge Current Single Sine-wave Superimpose on Rated Load (JEDEC Method)	I_{FSM}	400		
Maximum Instantaneous Forward Voltage Drop per Element at Specified Current	V_F	1.2		Volts
Maximum Reverse DC Current at Rated DC Blocking Voltage per Element	I_R	10.0		μA
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.5		$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150		$^\circ C$

Note : 1) Thermal Resistance from Junction to Case.

Ratings and Characteristic Curves

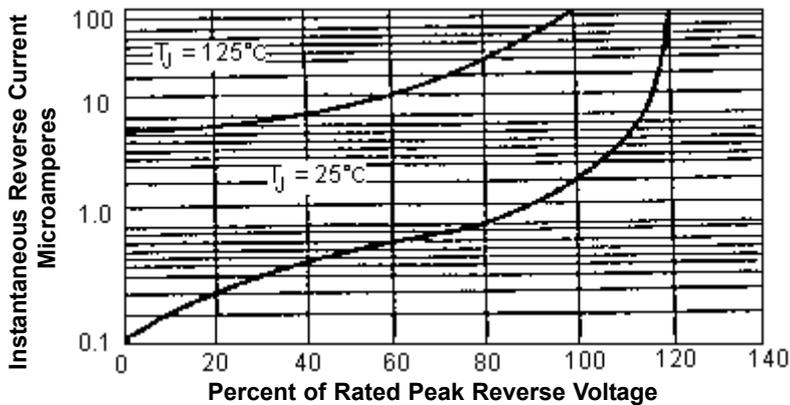


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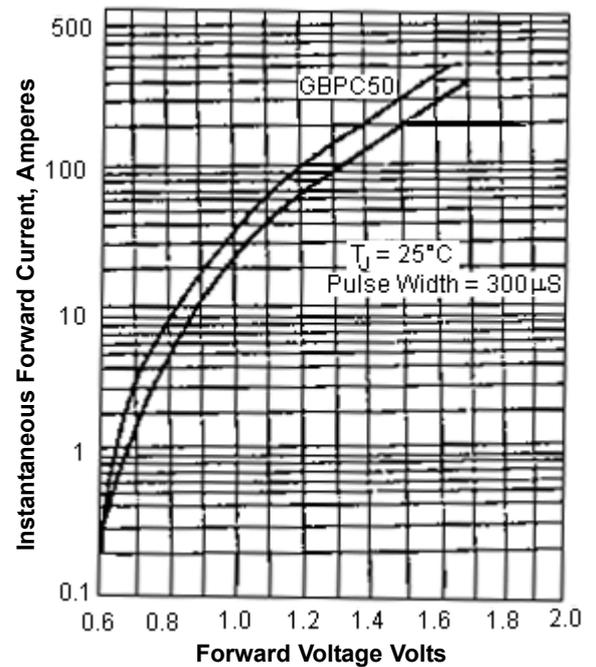
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Typical Reverse Characteristics



Typical Forward Characteristics



Part Number Table

Description	Part Number
Bridge Rectifier, 50A, 200V	GBPC5002
Bridge Rectifier, 50A, 600V	GBPC5006

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